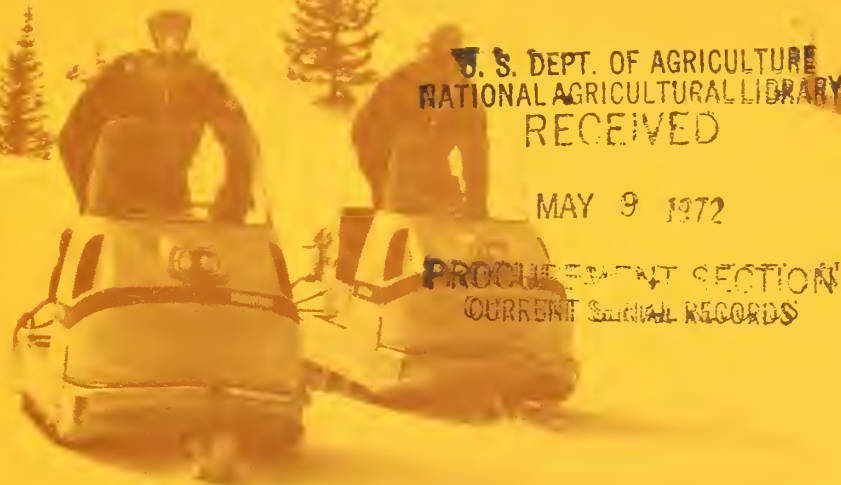


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WATER SUPPLY OUTLOOK FOR UTAH

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation,
Utah Fish and Game Dept., Utah State University, U.S. National
Park Service, U.S. Geological Survey, and other Federal, State,
and private organizations.

AS OF
APR. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
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A. W. HAMELSTROM

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES

|||||
Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
FEDERAL BLDG., ROOM 4012
SALT LAKE CITY, UTAH 84111

WATER SUPPLY OUTLOOK

as of

APRIL 1, 1972

* * * * *
* The 1972 Water Supply Outlook now ranges from "much below average" *
* in southern Utah to "excellent" in the northern part of the State. *
* Another warm, dry month reduced the snow pack which now ranges *
* from 0 to 60% of average in southern Utah to as high as 140% of *
* average in northern Utah. Reservoir storage is well above average. *
* Streamflow forecasts now range from 42% of average in southern Utah *
* to 240% in northern Utah. *
* * * * *

Snow Cover melted much earlier than usual in southern Utah and did not make the usual increases in northern Utah. Another warm, dry month produced well below average precipitation in all areas except the higher elevations of northern Utah. April 1 snow water content averages now range from 0 to 60% of average in southern Utah and from average to 140% of average in northern Utah. Many snow courses in the southern part of the state that usually gain 1 to 4 inches of water content actually lost as much as 10 inches during March this year.

Reservoir Storage in 15 principal reservoirs (excluding those of the Colorado River Storage Project) are now 141% of the April 1 average for the 15 year period 1953-67. Storage in the three main Sevier River Reservoirs (Otter Creek, Piute, and Sevier Bridge) now totals 295,100 acre feet or 179% of the April 1 average for the 1953-67 period. Colorado River Storage increased 354,200 acre feet during March.

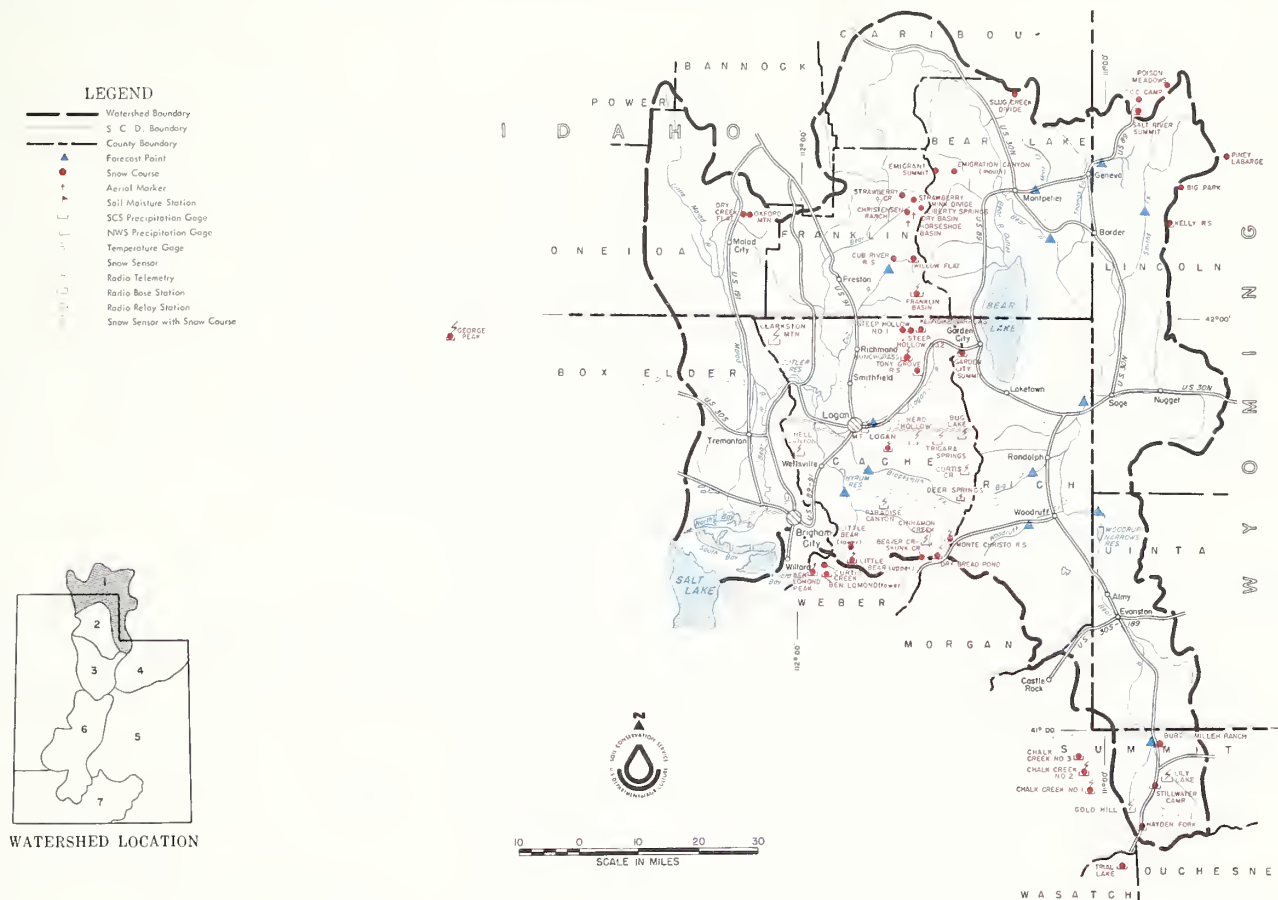
The elevation of the Great Salt Lake rose 0.30 foot during March and is now 4199.10 feet above mean sea level. This is 2.10 feet higher than last April 1 and 7.75 feet higher than the all-time record low in October 1963. March streamflow was above average on all index streams in the State except the Whiterocks River according to the U. S. Geological Survey.

Streamflow Forecasts for the April-July period have dropped sharply in southern Utah due to extremely early snow melt. Forecasts now range from 42% of average for the inflow to Rockyford Reservoir to 241% average for Lost Creek in northern Utah. Forecasts on Utah streams are above average north of a line running across the State from Utah Lake to Vernal and progressively farther below average south of that line. Some areas in southern Utah without reservoir storage are expected to have limited water supplies by mid-June or July unless above average precipitation occurs during the remainder of the runoff season.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1972

The Water Supply Outlook for the 1972 season on the Bear River and tributaries is still excellent.

Snow Cover ranges from 140% of the April 1 average on Smith's Fork to 107% on the Bear south of Evanston. Snow cover on the Logan River is 133% of average, 124% on the Blacksmith Fork and Little Bear Rivers. Warm temperatures melted low and medium elevation snow but high elevation snow measurements showed some increase in water content since March 1, although much less than the usual increase for the month. April 1 snow cover on the Bear River drainage is about 20% less than last year at this time.

Reservoir Storage is above average in Bear Lake (126%) and Woodruff Narrows is full with 26,500 acre feet. Hyrum has 11,100 acre feet compared to 11,600 acre feet last year. Porcupine has 6,200 acre feet compared to last years 8,700 acre feet.

Streamflow Forecasts dropped 1 to 15% on all Bear tributaries except the Smith's Fork, Thomas Fork and Bear at Harer. These stations are now forecast to produce 153%, 172%, and 195% of their April-September averages respectively. The Bear at Utah-Wyoming Line is forecast at 123% (131,000 a.f.) of its April-July average. Big Creek 9,000 a.f. (188%) and Woodruff Creek 23,000 a.f. (170%). Logan River is expected to produce 147,000 a.f. (148%), Blacksmith Fork 70,000 a.f. (167%) and Little Bear 55,000 a.f. (131%) during the April-June period.

Maximum mean daily peak flows are still expected to be higher than average on these streams although the potential was reduced by medium and low elevation snow melt during March.

APRIL 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		THOUSAND ACRE FEET		
	Thousand Acre Feet	Percent of Average	FORECAST PERIOD	Last Year	Average †
<u>BEAR RIVER SYSTEM</u>					
Bear at Harer, Idaho (1)	440	195	Apr-Sept	534	226
Bear nr Randolph	140	192	Apr-July		73
Bear nr Ut-Wyo. State Line	131	123	Apr-July	138	106
Bear nr Woodruff	150	144	Apr-July		104
Big Crk nr Randolph, Utah	9.0	188	Apr- July		4.8
Blacksmith Fork nr Hyrum	70	167	Apr-July	99	42
Little Bear nr Paradise	55	131	Apr-June		42
Logan nr Logan	147	148	Apr-July	203	99
Smith's Fork nr Border, Wyoming	165	153	Apr-Sept		108
Thomas Fork nr Ut-Wyo State Line	54	172	Apr-Sept		31
Woodruff Crk nr Woodruff, Utah	23	170	Apr-July		13.5

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Bear River</u>	Bear Lake	1421.0	1127.2	1091.0	895.2
	Woodruff Narrows	26.5	26.5	26.5	- -
<u>Little Bear</u>	Hyrum	15.3	11.1	11.6	13.1
	Porcupine	11.3	6.2	8.7	- -

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek near Randolph	70 - 110	43
Logan River near Logan	1000 - 1350	911
Woodruff Creek nr Woodruff	225 - 400	220
Little Bear nr Paradise	650 - 800	439
(1) - Observed flow corrected for change in storage and diversions		
(3) - Data obtained by radio - USU-SCS cooperative sites		
b - Average of all past records within the 15-yr period, but less than 15 years.		
x - Adjacent drainage		
* - Partly estimated		

BEAR RIVER BASIN

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UPPER BEAR RIVER (Above Harer, Idaho)						
Big Park x	8700	3/27	71	27.5	31.6	20.0
Burts-Miller Ranch	7900	3/24	9	3.5	7.1	6.1
CCC Camp x	7500	3/30	40	14.7	21.7	11.4
Hayden Fork	9400	3/24	50	18.0	19.4	15.8*
Kelly Ranger Station	8200	3/27	66	25.9	28.0	17.9
La Barge G.S.	9500	3/28	102	42.0	-	-
Monte Cristo R.S.	8960	3/30	74	32.5	40.4	24.7
Piney-LaBarge #2 x	8820	3/28	70	31.0	34.6	-
Poison Meadows x	8500	3/28	111	42.1	41.9	29.3
Salt River Summit	7900	3/30	54	22.1	26.2	15.2
Stillwater Camp	8550	3/24	30	10.9	14.2	11.1b
Trial Lake x	9800	3/30	80	31.0	31.2	25.0
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Crk-Skunk Crk	7150	3/30	27	11.3	16.4	11.0
Christensen Ranch	5600	3/29	3	0.9	10.0	7.2*
Cub River R.S.	5400	3/29	0	0.0	7.6	6.4*
Dry Bread Pond x	8230	3/30	49	21.3	25.3	17.0
Dry Creek Flat	6350	3/28	0	0.0	9.8	3.7*
Emigration Canyon	6500	3/30	27	11.6	17.1	9.6
Emigrant Summit	7350	3/30	74	33.1	38.2	22.9
Franklin Basin	8000	3/27	80	35.4	44.5	26.8
Garden City Summit	7600	3/27	60	25.6	25.9	18.1
Klondike Narrows	7400	3/27	54	24.2	29.8	19.4b
Liberty Spring	8600	3/29	115	47.0	61.5	36.2
Little Bear (lower)	6000	2/24	14	5.8	12.9	7.8b
Little Bear (upper)	6550	2/24	25	10.0	14.8	10.6b
Monte Cristo R.S.	8960	3/30	74	32.5	40.4	24.7
Oxford Mountain	6800	3/28	17	6.5	12.2	7.7*
Slug Creek Divide	7225	3/29	51	21.8	24.7	15.4
Steep Hollow #1	8500	3/27	111	47.0	54.6	35.8b
Steep Hollow #2	7700	3/27	74	34.0	36.9	25.4b
Strawberry Creek	5800	3/29	22	7.3	12.4	10.1*
Strawberry Mink Divide	6800	3/29	57	24.7	32.0	20.1*
Tony Grove R.S.	6250	3/27	30	12.9	15.5	9.4
Willow Flat	6100	3/29	28	11.5	19.1	13.4*

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>BEAR RIVER</u>							
Burt's - Miller Ranch	7900	3/24	- -	- -	10.58	- -	- -
Chalk Creek #1 x	9100	3/31	1.86	- -	24.66	- -	- -
Chalk Creek #2 x	8000	3/31	2.02	3.14b	17.96	14.96*	120
Chalk Creek #3 x	7500	3/27	2.47	2.54b	16.42	12.73b	129
Cinnamon Crk (3)	7300	3/31	2.34	- -	21.23	- -	- -
Clarkston (3)	6300	3/31	2.74	- -	25.59	- -	- -
Curtis Creek (3)	8450	3/31	4.66	- -	32.53	- -	- -
Dry Bread Pond	8230	3/30	2.80	3.68	24.03	19.90*	121
Franklin Basin	8000	3/31	5.02	- -	31.01	- -	- -
Garden City Summit	7600	3/27	4.84	3.16b	26.66	17.90*	149
Gold Hills (3)	10000	3/31	3.38	- -	26.23	- -	- -
Hayden Fork	9300	3/24	- -	- -	28.29	- -	- -
Kelly R.S.	8200	Data not available					
Klondike Narrows	7400	3/31	4.08	3.88b	30.53	23.27*	131
Little Bear (upper)	6850	3/31	2.73	3.10b	26.62	18.46*	144
Monte Cristo #2	8960	3/30	4.31	4.97b	31.97	24.65b	130
Sagebrush Flat x	6300	3/30	2.31	2.60b	19.02	13.36b	142
Salt River Summit	7900	3/30	3.85	2.71b	23.30	15.69*	148
Stillwater Camp	8550	3/24	- -	- -	15.77	12.58*	125
Tony Grove R.S. (SCS)	6250	3/31	4.12	2.65b	30.62	18.75b	163
Trial Lake x	9800	3/30	3.33	3.82b	30.77	21.18*	145
Willow Flat	6100	3/29	4.55	3.63*	26.65	21.15*	126

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SOIL CONSERVATION SERVICE
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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



Peak flows on Lost Creek and the South Fork of the Ogden are still expected to be higher than average this year. Lost Creek is expected to range between 400 - 540 c.f.s. and the South Fork 900 - 1200 cfs for the maximum mean daily peak.

APRIL 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	41	158	Apr-June	- -	26
East Canyon Crk nr Morgan (1)	24	140	Apr-June	27	17.2
Hardscrabble Crk nr Porterville	18.0	133	Apr-June		13.5
Lost Crk nr Croydon, Utah	28	241	Apr-June	24	11.6
Pineview Reservoir Inflow (2)	160	178	Apr-June	160	90
South Fork Ogden nr Huntsville	80	174	Apr-June		46
Rockport Reservoir Inflow (1)	116	105	Apr-June		110
Weber nr Coalville (1)	126	126	Apr-June		100
Weber nr Oakley	108	116	Apr-June	124	93

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek near Croydon	400 - 540	171
So. Fork Ogden nr Huntsville	900 - 1200	643

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ogden</u>	Causey	7.1	1.0	1.6	- -
	Pineview	110.1	80.8	38.5	29.9
<u>Weber</u>	East Canyon	48.1	40.7	40.0	13.7
	Echo	73.9	63.4	61.4	41.3
	Lost Creek	20.0	13.0	13.9	- -
	Rockport	60.9	25.9	23.1	24.2
	Willard Bay	193.3	173.0	182.2	- -
(1) - Observed flow corrected for change in storage and diversions. (2) - Inflow record as computed by U.S. Bureau of Reclamation b - Average of all past records within the 15-year period, but less than 15 years x - Adjacent drainage ** - Snow pillow reading cooperatively by Park City Resort * - Partly estimated (3) - Data obtained by radio - USU-SCS cooperative sites					

WEBER-OGDEN WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Crk	7150	3/30	27	11.3	16.4	11.0
Ben Lomond (lower)	6000	3/28	36	15.5	18.2	13.5b
Ben Lomond Peak	8000	3/28	88	41.8	42.0	32.2
Ben Lomond Trail	6000	3/28	36	16.2	19.7	12.0b
Cutler Creek	6780	3/28	69	32.2	31.5	23.3b
Dry Bread Pond	8230	3/30	49	21.3	25.3	17.0
Monte Cristo R.S.	8960	3/30	74	32.5	40.4	24.7
Sagebrush Flat	6300	3/30	0	0.0	0.6	1.6
<u>WEBER RIVER</u>						
Beaver Creek R.S.	7500	3/30	4	1.7	6.4	7.7
Chalk Creek #1	9100	3/27	68	24.8	29.1	22.4
Chalk Creek #2	7900	3/27	46	16.1	18.4	14.4
Chalk Creek #3	7500	3/27	11	4.1	9.8	7.1*
Farmington Canyon (lower)	6950	3/29	57	22.9	26.5	21.2
Farmington Canyon (upper)	8000	3/29	94	38.2	39.4	26.3
Lamb's Canyon x #1	6600	3/30	41	15.4	18.0	13.7
Lamb's Canyon x #2	7400	3/30	36	14.5	17.3	- -
Lost Creek Reservoir	6125	3/31	0	0.0	- -	- -
Park City Smt.	9300	4/4	112	44.8	- -	- -
Parley's Canyon Smt.	7500	3/30	45	17.9	21.9	17.2
Reddon Mine (lower)	8500	3/29	42	16.9	20.7	17.3
Reddon Mine (upper)	9000	3/29	45	18.6	23.4	19.0
Silver Lake x	8725	3/30	64	27.4	27.8	24.1
Smith & Morehouse	7600	3/28	29	11.2	13.0	11.9
Trial Lake x	9800	3/30	80	31.0	31.2	25.0
Horse Ridge	8260	3/31	67	32.0	31.3	20.3b
Kilfore Creek	7300	3/31	43	18.2	- -	13.1b -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>OGDEN RIVER</u>							
Ben Lomond (lower)	5850	3/28	5.36	3.62b	35.08	23.47*	149
Ben Lomond Trail	6000	3/28	5.43	3.17b	35.16	24.65*	143
Causey Dam	5500	3/30	2.37	2.17b	20.80	15.63*	133
Dry Bread Pond	8230	3/30	2.80	3.68b	24.03	19.90*	121
Monte Cristo #2 x (WB)	8960	3/30	4.31	4.97	31.97	24.65	130
Sagebrush Flat	6300	3/30	2.25	2.60b	19.02	13.36	142
<u>WEBER RIVER</u>							
Chalk Creek #1	9100	3/31	1.86	- -	24.66	- -	- -
Chalk Creek #2	8000	3/31	2.02	3.14b	17.96	14.96*	120
Chalk Creek #3	7500	3/27	2.47	2.54b	16.42	12.73b	129
Farmington Guard Station	7500	3/29	4.94	5.03	39.98	26.76	149
Farmington Rice	7000	3/29	4.07	4.65	35.51	24.38	146
Horse Ridge	8260	3/31	4.70	- -	34.45	- -	- -
Lost Creek Reservoir	6125	3/31	1.19	- -	14.96	- -	- -
Mt. Dell Dam	5500	4/4	1.40	2.32	12.75	11.84	108
Parley's Canyon Smt.	7500	3/30	3.15	3.75*	23.45	19.33	121
Reddon Mine (upper)	9000	3/29	2.41	- -	25.30	- -	- -
Sargeant Lakes (3)	8400	3/31	2.24	- -	20.67	- -	- -
Silver Lake (Brighton)	8725	4/4	3.22	5.04	30.18	24.15	125
Smith & Morehouse	7600	3/28	2.55	3.47b	21.27	16.45*	129
Trial Lake x	9800	3/30	3.33	3.82b	30.77	21.18	145

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WATER SUPPLY OUTLOOK

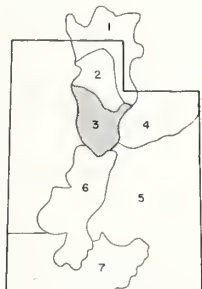
UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS

LEGEND

- Watershed Boundary
- S. C. D. Boundary
- County Boundary
- Forecast Point
- Snow Course
- Aerial Marker
- Soil Moisture Station
- SCS Precipitation Gage
- NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course

10 0 10 20 30
SCALE IN MILES



WATERSHED LOCATION



APRIL 1, 1972

The 1972 Water Supply Outlook for Utah Lake, Jordan River and Tooele Watersheds is now "near average" to "above average".

Snow Cover was reduced greatly by warm, dry weather and now ranges from 28% of average on Hobbie Creek to 109% of the April 1 average along the Wasatch front above Salt Lake. Spanish Fork snow cover is now 66% of average, American Fork 68%, and Provo River 92%. The Oquirrh Mountains have 82% of the April 1 average for the 1953-67 period. Strawberry Reservoir Valley has 79% of the April 1 average snow water content.

Reservoir Storage is well above average. Strawberry now holds 205,600 acre feet (167%), Deer Creek holds 113,800 acre feet (126%) and Utah Lake 841,400 acre feet (140%). Utah Lake was 0.42 feet below Compromise on April 1st after an above average March inflow.

Streamflow Forecasts now range from 88% of average on Settlement Canyon Creek above Tooele to 147% of average on the Provo below Deer Creek Dam. Spanish Fork is forecast to flow 25,000 acre feet (93%), Hobbie Creek 13,200 acre feet (102%) and American Fork 25,000 acre feet (96%) during the April-July period. The Provo at Hailstone is forecast to flow 123,000 acre feet (142%). Utah Lake Inflow is expected to be 247,000 acre feet (127%) during the same period. Forecasts on the Creeks near Salt Lake vary from 109% (36,000 a.f.) of average on Little Cottonwood to 144% (13,500 a.f.) on Parley's Creek. Big Cottonwood is forecast to flow 39,000 acre feet (115%) and Farmington Creek 9,000 acre feet (132%) during the April-July period.

Report prepared by
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

APRIL 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER & UTAH LAKE</u>					
American Fork nr American Fork	25	96	Apr-July	25	26
Hobble Creek nr Springville	13.2	102	Apr-July	20	13.0
Provo nr Hailstone (1)	123	142	Apr-July		87
Provo below Deer Crk Dam (1)	141	147	Apr-July		96
Spanish Fork at Thistle	25	93	Apr-July		27
Strawberry Reservoir Inflow (1)	43	105	Apr-July		41
Utah Lake Inflow	247	127	Apr-July	241	195
<u>JORDAN RIVER & SALT LAKE</u>					
Big Cottonwood nr SLC	39	115	Apr-July	42	34
Farmington Crk nr Farmington	9.0	132	Apr-July		6.8
Little Cottonwood Crk nr SLC	36	109	Apr-July	41	33
Parley's Crk nr SLC	13.5	144	Apr-July	19.4	9.4
<u>TOOELE VALLEY</u>					
Settlement Canyon	1.5	88	Apr-July		1.7

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Spanish Fork</u>	Strawberry	270.0	205.6	193.7	123.1
<u>Utah Lake</u>	Utah Lake	883.9	841.4	870.5	600.3
<u>Provo</u>	Deer Creek	149.7	113.8	99.5	90.1
(1) - Observed flow corrected for change in storage and diversions. x - Adjacent drainage b - Average of all past records within the 15-year period, but less than 15 years * - Partly estimated					

UTAH LAKE, JORDAN RIVER & TOOELE WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UTAH LAKE</u>						
Beaver Creek R.S. x	7500	3/30	4	1.7	6.4	7.7
Camp Altamont	7300	3/31	10	3.5	7.4	13.3
Clear Creek Ridge #1	9200	3/29	40	16.7	20.7	17.3b
Clear Creek Ridge #2	8000	3/29	28	11.1	14.9	12.6b
Clear Creek Ridge #3	6600	3/29	0	0.0	6.1	5.2b
Daniels Strawberry Smt.	8000	3/28	24	9.8	12.9	14.0
Dutchman R.S.	7560	3/31	27	12.5	12.6	15.8
East Portal	7560	3/31	14	6.2	9.7	10.6
Hobble Creek Summit	7420	3/30	14	5.7	13.3	12.0
Packard Canyon	6400	3/30	0	0.0	7.2	8.4b
Payson R.S.	8050	3/28	24	9.9	19.7	16.6
Rock Bridge	6750	3/28	15	4.8	13.2	11.0
Soapstone	7800	3/30	31	11.5	12.2	11.9
South Fork R.S.	6100	3/31	0	0.0	0.2	2.8
Strawberry Divide	8000	3/31	41	17.9	21.0	18.4
Timpanogos Cave Camp	5500	3/31	0	0.0	0.0	1.0
Timpanogos Divide	8140	3/31	46	19.4	16.9	22.6
Trial Lake	9800	3/30	80	31.0	31.2	25.0
<u>JORDAN RIVER & TOOELE VALLEY</u>						
Bevan's Cabin	6450	3/27	15	5.5	13.0	9.6b
Lamb's Canyon #1	6600	3/30	41	15.4	18.0	13.7
Lamb's Canyon #2	7400	3/30	36	14.5	17.3	- -
Middle Canyon - Tooele	7000	3/27	20	7.9	17.0	12.2b
Mill D South Fork	7400	3/30	45	20.3	22.6	18.8
Parley's Canyon Summit	7500	3/30	45	17.9	21.9	17.2
Rocky Basin-Settlement C	8900	3/30	59	23.8	30.5	23.6b
Silver Lake	8725	3/30	64	27.4	27.8	24.1
Vernon Creek	7500	3/27	3	0.5	8.0	- -
Snowbird Lodge	8200	4/4	56	24.1*	- -	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	3/29	1.40	2.73b	15.78	14.32*	110
Daniels-Strawberry Smt.	8000	3/28	1.91	3.26b	19.69	17.11b	115
Dutchman R.S.	7500	3/31	3.50	3.32b	25.25	19.26b	131
East Portal Ridge	7800	3/31	2.14	3.12	18.61	16.90*	110
Hobble Creek Smt.	7300	3/30	2.30	- -	19.37	- -	- -
Payson R.S.	8050	3/28	1.70	3.12b	16.53	16.97	97
Soapstone R.S.	7800	3/30	2.51	2.54b	19.51	14.67*	133
Timpanogos Divide	8200	3/31	2.10	3.89	25.85	23.78	109
Trial Lake	9800	3/30	3.33	3.82b	30.77	21.18	145
<u>JORDAN RIVER & TOOELE VALLEY</u>							
Lamb's Canyon #2	7400	3/30	3.35		23.55	- -	- -
Middle Canyon	7000	3/27	2.62	3.56b	13.92	16.43	85
Mt. Dell Dam	5500	4/4	1.40	2.32	12.75	11.84	108
Parleys Canyon Smt.	7500	3/30	3.15	3.75*	23.45	19.33	121
Silver Lake (Brighton)	8725	4/4	3.22	5.04	30.18	24.15	125
Rocky Basin-Settlement Cy	8900	3/30	2.20	- -	19.70	- -	- -
Vernon Creek	7500	3/27	0.77	- -	15.82	- -	- -

UNITED STATES DEPARTMENT OF AGRICULTURE
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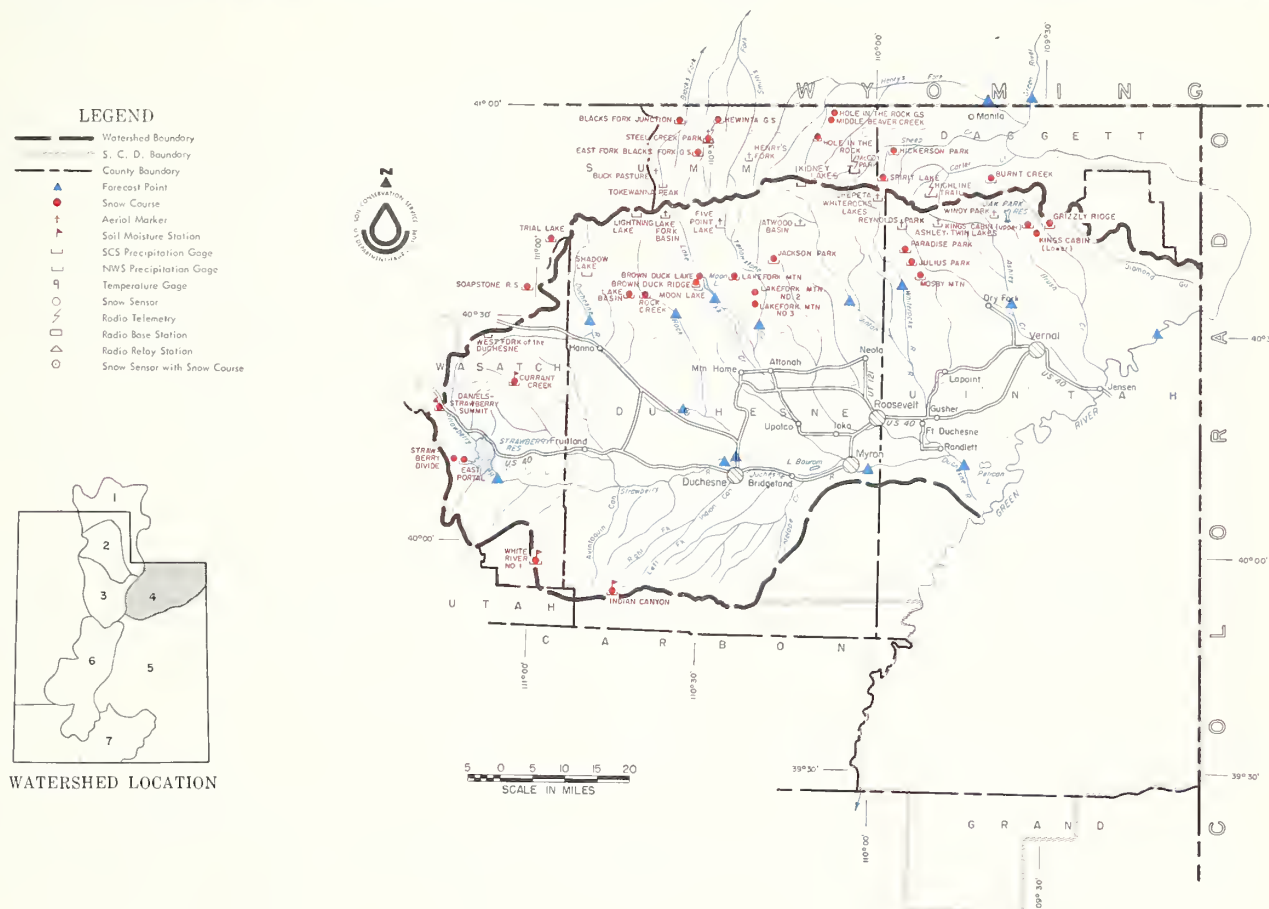
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1972

The Water Supply Outlook for Uintah Basin and Daggett SCD's is now "near average" for the 1972 irrigation season.

Snow Cover reduced 20 to 30% during a warm, dry March but still ranges from 79% of average on Strawberry river to 121% on the Blacks Fork-Smiths Fork drainages. The Upper Duchesne has 103% of the average snow cover and Lakefork Creek 82% of average. The Uintah and Whiterocks drainages have 118% of average and Ashley Creek 113% of the April 1 average snow water content. The aerial snow depth markers in the higher, more inaccessible areas of these watersheds were flown cooperatively with the State Division of Wildlife Resources and generally showed above average amounts of snow although slightly less than last year on April 1.

Reservoir Storage is above average. Steinaker now contains 25,600 acre feet. Moon Lake contains 19,200 acre feet and last year held only 13,900 a.f. on April 1. Starvation now holds 120,000 acre feet and Bottle Hollow is almost full with 11,000 acre feet. Flaming Gorge now holds 2,642,000 acre feet (215%) and 768,000 acre feet more than last April 1st.

Streamflow Forecasts have dropped due to a dry, warm March and now range from 101% of average on the Uintah to 150% for the inflow to Flaming Gorge Reservoir. The Yellowstone and Lakefork Creeks are expected to produce 102% of average or 62,000 and 67,000 acre feet respectively for the April-July period. Whiterocks River is expected to flow 55,000 acre feet (108%) and Ashley Creek 54,000 acre feet (123%). The Duchesne is forecast to produce 120,000 acre feet (128%) at Tabiona, 200,000 acre feet (120%) at Duchesne and 258,000 a.f. (106%) at Myton. The Strawberry is forecasted to produce 55,000 a.f. (112%) at Duchesne during the April-July period. The Henrys Fork is expected to produce 50,000 acre ft. (132%) during the April-September period.

Report prepared by
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

APRIL 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona (1)	120	128	Apr-July		94
Duchesne at Duchesne (1)	200	120	Apr-July		167
Duchesne at Myton (1)	258	106	Apr-July		243
Duchesne at Randlett (1)	310	118	Apr-July		262
Strawberry st Duchesne	55	112	Apr-July	62	49
Rock Crk nr Mtn. Home	100	114	Apr-July		88
Lakefork below Moon Lake (1)	67	102	Apr-July		66
Yellowstone nr Altonah	62	102	Apr-July		59
Uinta nr Neola	80	101	Apr-July		79
Whiterocks nr Whiterock	55	108	Apr-July	59	51
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Ashley Creek nr Vernal	54	123	Apr-July	50	44
Henry's Fork at Linwood	50	132	Apr-Sept		38
Flaming Gorge Inflow (1)	1585	150	Apr-July	1905	1054

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ashley Creek</u>	Steinaker	33.3	25.6	25.2	- -
<u>Green River</u>	Flaming Gorge	3749.0	2642.0	1874.0	1231.0
<u>Lake Fork</u>	Moon Lake	35.8	19.2	13.9	17.1
<u>Strawberry</u>	Starvation	165.3	120.0	122.4	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	- -	= -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15-year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

UINTAH BASIN & DAGGETT SCD'S

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UINTAH BASIN SCD						
Brown Duck Ridge	10800	3/31	68	24.8	20.8	- -
Currant Creek	7800	3/29	10	3.6	9.9	8.0b
Daniels-Strawberry Smt. x	8000	3/28	24	9.8	12.9	14.0
East Portal x	7560	3/31	14	6.2	9.7	10.6
Indian Canyon	9100	3/30	36	13.1	10.8	11.5
Jackson Park	11300	3/28	45	14.0	11.6	12.1b
Julius Park	9800	3/21	44	14.2	12.9	12.0b
King's Cabin (lower)	8600	3/23	23	7.6	9.6	8.1
King's Cabin (upper)	8730	3/23	34	11.1	12.2	9.6
Lakefork Mountain	10200	3/27	37	10.7	11.2	11.1
Lakefork Mountain #2	8900	3/27	12	4.3	7.2	7.2
Lakefork Mountain #3	8100	3/27	0	0.0	5.8	5.6
Mosby Mountain	9500	3/21	30	10.4	8.9	9.7
Paradise Park	10100	3/22	45	14.8	12.4	11.4
Rock Creek	7900	3/24	7	2.8	4.4	5.9b
Soapstone R.S. x	7800	3/30	31	11.5	12.2	11.9
Strawberry Divide	8000	3/31	41	17.9	21.0	18.4
Trial Lake	9800	3/30	80	31.0	31.2	25.0
White River #1	8550	3/31	30	12.0	15.4	12.0*
Grizzly Ridge	8500	3/23	24	8.5	- -	- -
DAGGETT SCD						
Black's Fork Jct.	8925	3/23	35	11.0	11.5	9.3b
East Fk. Black's Fk. G.S.	9300	3/23	38	12.2	10.7	9.4b
Hewinta Guard Station	9500	3/23	35	10.7	11.4	9.8*
Hickerson Park	9100	3/23	11	3.4	7.2	6.0*
Hole-in-the-Rock	9150	3/22	18	5.8	7.5	5.9
Hole-in-the-Rock G.S.	8300	3/22	0	0.0	2.9	1.6b
Middle Beaver Creek	8550	3/22	11	3.8	6.9	5.3b
Spirit Lake	10300	3/23	44	13.6	14.4	12.0b
Steel Creek Park	9900	3/23	64	19.1	20.2	15.3b
Burnt Creek	7900	3/23	2	0.7	- -	- -
UINTAH BASIN - Aerial Markers						
Ashley Twin Lakes A	10500	3/31	53	17.5	16.5	- -
Atwood Basin A	10250	3/31	40	12.4	8.4	- -
Buck Pasture A	9700	3/31	60	20.4	18.9	- -
Chepeta-Whiterocks Lakes A	10300	3/31	47	15.5	15.5	- -
Five Point Lake A	11000	3/31	60	17.4	17.4	- -
Henry's Fork A	10000	3/31	45	14.0	15.2	- -
Lakefork Basin A	11100	3/31	72	20.9	21.5	- -
Reynolds Park A	10400	3/31	62	20.5	16.2	- -
Windy Park A	9400	3/31	36	11.9	12.6	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>UINTAH BASIN SCD</u>							
Brown Duck Ridge	10800	3/31	- -	- -	21.65	- -	- -
Currant Creek	7800	3/29	- -	- -	17.41	12.35b	141
Daniels-Strawberry Smt.x	8000	3/28	1.91	3.26b	19.69	17.11b	115
East Portal Ridge x	7800	3/31	2.14	3.12	18.61	16.90*	110
Grizzly Ridge	8500	3/23	0.95	- -	15.68	- -	- -
Indian Canyon	9100	3/30	0.82	2.32b	15.82	13.06b	121
Jackson Park	10650	3/28	- -	- -	16.01	- -	- -
Julius Park	9800	3/21	0.54	1.86b	16.55	11.24*	147
King's Cabin (upper)	8730	3/23	0.80	2.07b	14.42	10.04*	144
Lakefork Mountain	10500	3/27	1.36	1.91b	16.32	11.06b	148
Moon Lake	8150	4/4	0.70	1.13	9.80	7.54	130
Mosby Mountain	9500	3/21	0.43	- -	14.58	- -	- -
Paradise Park	10100	3/22	0.70	2.24b	17.98	12.54b	143
Rock Creek	7900	3/24	- -	- -	14.43	10.42b	138
Soapstone R.S. x	7800	3/30	2.51	2.54b	19.51	14.67*	133
Trial Lake x	9800	3/30	3.33	3.82b	30.77	21.18b	145
White River #1 x	8600	3/31	1.65	2.52b	14.10	12.98*	109
<u>DAGGETT SCD</u>							
Black's Fork Jct.	8925	3/23	2.57	2.33b	15.33	10.33b	148
Burnt Creek	7900	3/23	0.61	- -	11.70	- -	- -
E. Fk. Black's Fk. G.S.	9300	3/23	2.93	2.40b	15.49	11.06b	140
Hewinta Guard Station	9500	3/23	3.17	2.59b	16.88	11.77b	143
Hickerson Park	9100	3/23	1.17	- -	10.11	- -	- -
Spirit Lake	10300	3/23	1.58	2.65	17.77	13.98*	127
Steel Creek Park	9900	3/31	2.65	- -	17.70	- -	- -

UNITED STATES DEPARTMENT OF AGRICULTURE
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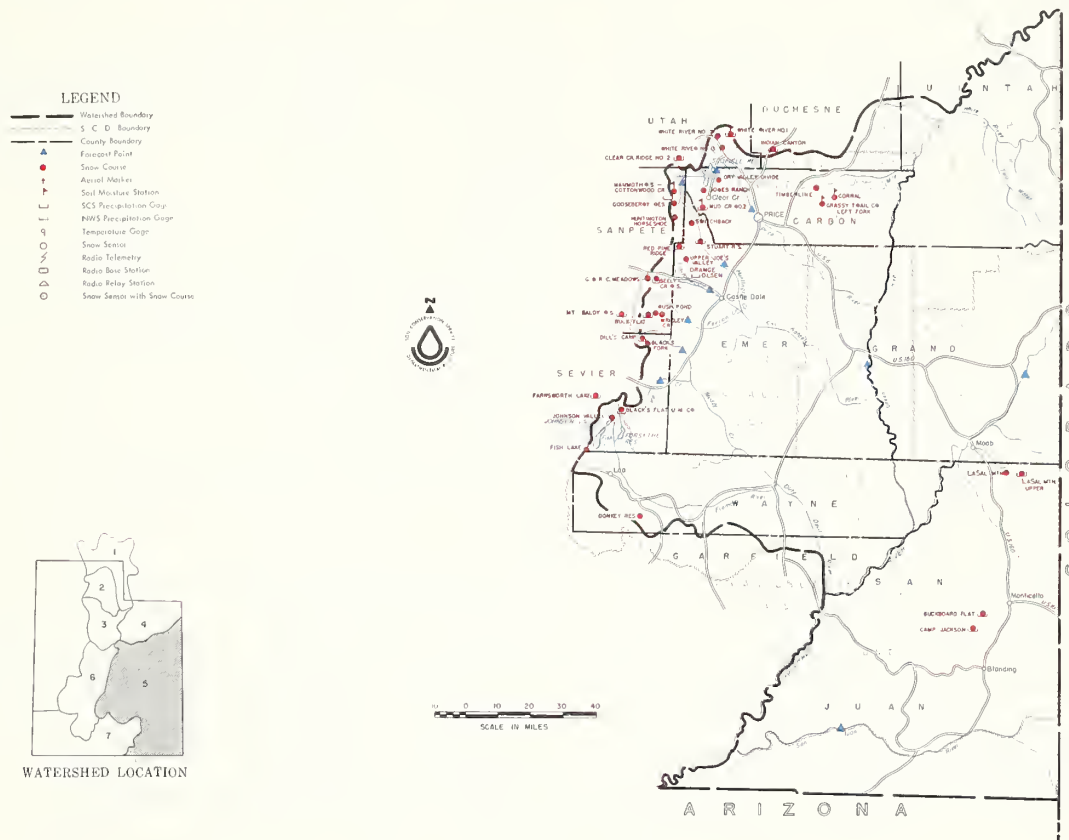
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1972

The 1972 Water Supply Outlook for Southeastern Utah is now "below average".

Snow Cover now ranges from 33% of average on the Blue Mountains to 73% on the Price River. San Rafael snow courses average 71% of the April 1 average, Muddy Creek 66% and Fremont River 68% of the April 1 average. Warm, dry weather during March melted the snow pack much faster than usual and only the highest snow courses show an increase in water content. Most low and medium elevation snow courses are bare or melted as much as 10 inches of snow water during March.

Reservoir Storage is above average. Scofield now has 44,500 a.f. (193%), Joe's Valley has 41,000 a.f., Mill Site 6,000 a.f., and Huntington North has 3,800 a.f.. in storage. Navajo Reservoir on the San Juan has 837,700 a.f. or about 6,000 more than last year at this time.

Streamflow Forecasts have dropped significantly due to the warm, dry, windy March weather and now range from 58% of average on the San Juan near Bluff to 116% on the Green River at Green River. Scofield Inflow is expected to be 22,000 a.f. (69%) and the Price River 35,000 a.f.(65%) near Heiner. Huntington Creek is expected to produce 32,000 a.f. (76%), Cottonwood Creek 32,000 a.f.(74%), and Ferron Creek 27,000 a.f.(82%) during the April-July period. Muddy Creek is forecast to produce 14,000 a.f.(86%) and Seven Mile Creek near Fish Lake 5,500 a.f.(89%).

The Colorado near Cisco is expected to flow 76% of its April-July average. Some late season water shortages may be expected on streams in this area without adequate reservoir storage to supplement the supply.

Report prepared by
BOB L. WHALEY
U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

APRIL 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	8.0	80	Apr-July	8.9	10.0
Price near Heiner (1)	35	65	Apr-July		54
Scofield Reservoir Inflow (1)	22	69	Apr-July	34	32
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	32	74	Apr-July		44
Ferron Crk nr Ferron	27	82	Apr-July	33	33
Huntington Crk nr Huntington	32	76	Apr-July	45	42
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	14.0	86	Apr-July	16.4	16.2b
<u>FREMONT RIVER</u>					
Seven Mile Crk. nr Fish Lake	5.5	89	Apr-July		6.2b
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	2117	76	Apr-July		2802
Green at Green River, Utah	2975	116	Apr-July		2574
Navajo Reservoir Inflow	390	63	Apr-July	305	619
San Juan nr Bluff, Utah	517	58	Apr-July		890

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Price River</u>	Scofield	65.8	44.5	45.7	23.1
<u>San Rafael</u>	Joe's Valley	54.6	41.0	40.9	- -
	Mill Site	16.7	6.0	- -	- -
	Huntington North	3.9	3.8	- -	- -
<u>San Juan</u>	Navajo	1696.4	837.7	831.8	- -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15-yr period, but less than 15 years x - Adjacent drainage * - Partly estimated					

CARBON, EMERY, WAYNE, GRAND & SAN JUAN

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME	Elevation					
<u>PRICE RIVER</u>						
Corral	8200	3/24	0	0.0	3.5	7.2b
Dry Valley Divide	7800	3/29	0	0.0	10.5	9.4
Gooseberry Reservoir	8700	3/29	30	13.2	19.4	18.1
Grassy Trail Crk-Left Fk.	7970	3/24	3	0.9	4.9	19.0
Huntington-Horseshoe	9800	3/29	38	16.5	21.0	23.4
Indian Canyon x	9100	3/30	36	13.1	10.8	11.5
Jones Ranch	7600	3/29	0	0.0	3.0	4.9b
Mammoth R.S.-Ctnwd. Crk.	8800	3/29	30	13.2	20.4	19.0
Mud Crrek #2	8300	3/29	25	9.4	12.8	12.3
Timberline	9100	3/24	36	12.6	12.1	13.6b
White River #1	8550	3/31	30	12.0	15.4	12.0
White River #2	7600	3/31	0	0.0	10.4	7.3b
White River #3	7400	3/31	0	0.0	8.0	6.6b
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	3/29	34	12.5	17.4	15.9b
Gooseberry Reservoir x	8700	3/29	30	13.2	19.4	18.1
Huntington-Horseshoe	9800	3/29	38	16.5	21.0	23.4
Mammoth R.S.-Ctnwd. Crk x	8800	3/29	30	13.2	20.4	19.0
Red Pine Ridge	9400	3/30	29	12.1	17.5	16.9b
Rush Pond	9800	3/29	29	10.1	14.8	13.8b
Seely Creek R.S.	10000	3/31	22	9.2	14.4	15.0
Stuart R.S.	7950	3/31	0	0.0	4.6	7.3b
Switchback	8600	3/31	30	12.6	13.6	15.3b
Upper Joe's Valley	8900	3/30	13	4.6	8.7	9.5b
Wrigley Creek	9000	3/29	20	7.2	9.8	10.6b
Orange Olsen R.S.	7300	3/30	0	0.0	- -	- -
<u>MUDY & FREMONT RIVERS</u>						
Black's Flat-U.M. Creek	9250	3/27	23	8.2	13.2	9.3b
Black's Fork	9200	3/28	22	8.5	12.8	12.9
Dill's Camp	9200	3/28	20	7.5	12.7	11.3*
Donkey Reservoir	9800	3/28	19	5.9	7.0	6.8b
Farnsworth Lake x	9900	3/30	43	16.6	23.4	17.4
Fish Lake	8700	3/27	0	0.0	5.4	5.7
Johnson Valley	8850	3/27	0	0.0	4.6	6.0b
Mt. Baldy R.S. x	9500	3/28	44	18.0	24.1	21.8
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	3/27	20	7.0	11.4	11.4
Camp Jackson	8600	3/27	1	0.3	8.8	10.5b
LaSal Mountain	8800	3/28	0	0.0	10.4	8.7
LaSal Mountain (upper)	9400	3/28	26	10.3	15.1	15.5b

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2	8000	3/29	1.40	2.73b	15.78	14.32*	110
Gooseberry Reservoir	8700	3/29	1.40	3.44b	16.10	17.27b	93
Indian Canyon	9100	3/30	0.82	2.32b	15.82	13.06b	121
Mammoth R.S. #2	8600	3/29	2.04	3.83b	16.34	18.23b	90
Mud Creek	8300	3/29	0.90	2.99*	11.80	14.30*	82
White River #1	8600	3/31	1.65	2.52b	14.10	12.98*	109
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	3/29	1.55	3.69*	16.85	16.15*	104
G.B.R.C. Meadows x	10000	3/31	1.20	4.62	20.00	21.03	95
Gooseberry Reservoir x	8700	3/29	1.40	3.44b	16.10	17.27b	93
Orange Olsen	7300	3/30	0.80	- -	9.35	- -	- -
Red Pine Ridge	9400	3/30	2.65	3.83b	20.85	18.98*	110
Stuart R.S.	7950	3/31	- -	- -	14.05	11.21*	125
<u>FREMONT & MUDDY RIVERS</u>							
Dill's Camp	9200	3/28	1.10	- -	14.25	- -	- -
Black's Flat-U.M. Crk.	9250	3/27	0.57	2.87b	11.82	11.80*	100
Farnsworth Lake x	9900	3/30	0.78	4.63b	17.12	18.15b	94
Fish Lake	8700	3/27	0.31	1.73b	8.51	8.11b	105
Widtsoe-Escalante #3	9500	3/31	0.51	2.49b	12.20	12.44b	98
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	3/27	0.10	2.88b	20.10	16.92b	119
Camp Jackson	8600	3/27	0.90	2.65*	16.93	14.31*	118
LaSal Mountain (upper	9600	3/28	0.20	- -	14.35	14.56*	98

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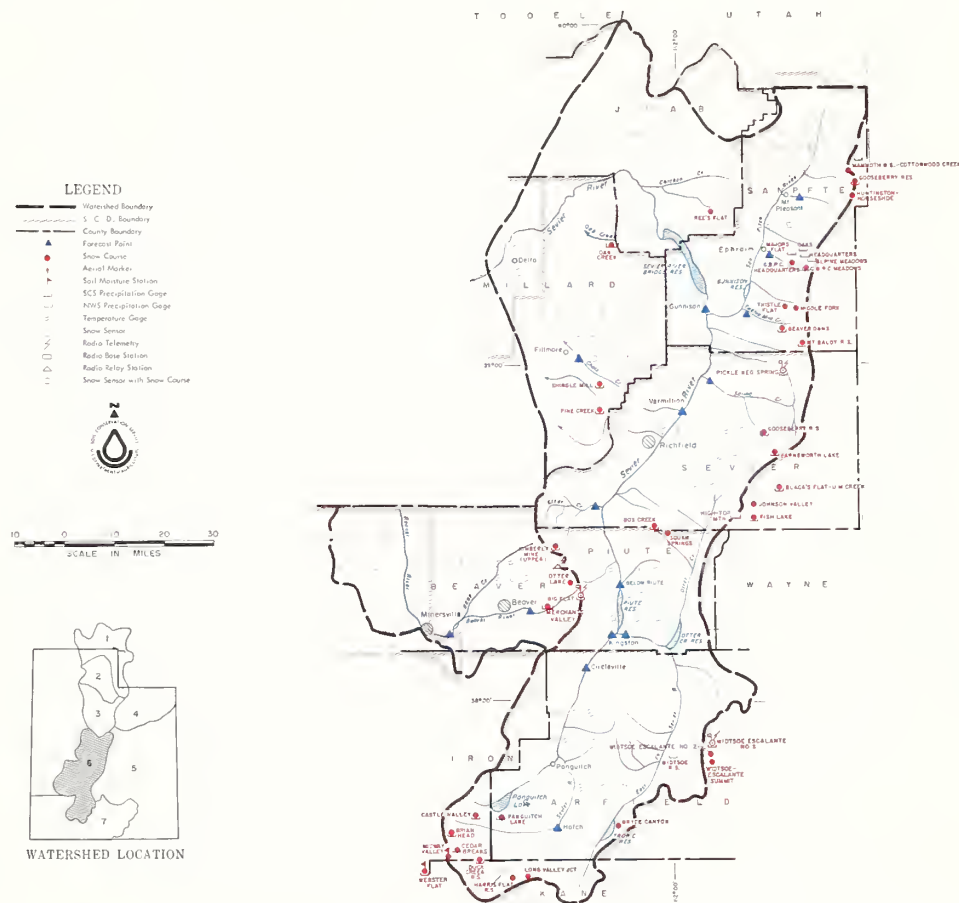
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



APRIL 1, 1972

The 1972 Water Supply Outlook for the Sevier and Beaver River Basins is now "much below average".

Snow Cover receded rapidly during March as a result of another warm and very dry month. Snow cover on the Upper Sevier river is now only 48% of the April 1 average for the 1953-67 period. Many snow courses that usually gain 2 to 4 inches of water content during March, lost as much as 10 inches of water this year which was a record snow melt loss for the month of March. The East Fork Sevier snow cover is now 54% of average, Clear Creek is 50% and Salina Creek is 72% of the April 1 average. Beaver River snow cover is now 58% of average and Pine Creek snow course near Fillmore had no snow. This is the first time this course has measured no snow on April 1 since measurements began in 1949.

Reservoir Storage on the three main Sevier reservoirs total 295,100 acre feet or 179% of the April 1 average. Otter Creek has 39,400 acre feet, Piute 66,400 acre feet and Sevier Bridge 185,700 acre feet. Sevier Bridge is not expected to fill this season. Gunnison Reservoir now has 18,100 acre feet or almost full and Minersville has 17,000 acre feet or about 1,200 acre feet less than last April 1.

Streamflow Forecasts have dropped greatly due to the extremely dry, warm weather and now range from 39% of average for the Sevier near Kingston to 79% of average for Ephraim Creek. The Sevier is now forecast to produce 20,000 acre feet (61%) at Hatch during the April-July period, 14,500 acre feet (54%) at Circleville, and 23,000 acre feet (74%) at Gunnison. The inflow Kingston to Vermillion is expected to be 18,200 acre feet during the April-June period and very little flow above the 360 cfs is expected below Vermillion. Possibly 400 to 600 acre feet. The inflow to Sevier Bridge Reservoir October through March was about 94,400 acre feet.

The Beaver River is now forecast to produce 13,000 acre feet or 69% of the April-July average for the 1953-67 period. Last year's flow for this period was 18,700 acre feet as reported by the U. S. Geological Survey. Flow into Minersville Reservoir is expected to be only about 2,000 acre feet or 42% of the April-June average this season unless above average precipitation occurs during the runoff period. Water conserving measures should be practiced this season since water supply shortages are expected by mid-season in areas without adequate reservoir storage.

APRIL 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>SEVIER RIVER</u>					
Chalk Creek nr Fillmore	7.0	53	Apr-July	15.1	13.2
Clear Crk nr Sevier (above div.)	9.7	77	Apr-July		12.5b
East Fork Sevier nr Kingston(1)	7.0	60	Apr-July		11.7
Antimony Crk nr Antimony	6.0	76	Apr-July		7.8b
Inflow					
Kingston to Vermillion Dam	18.2	61	Apr-June	13.0	30 b
Vermillion Dam to Gunnison	27	61	Mar-June		45 b
Salina Crk at Salina (1)	4.0	68	Apr-June		5.9*
Sevier nr Circleville	14.5	54	Apr-July		27
Sevier nr Gunnison	23	74	Apr-July		31 b
Sevier at Hatch	20	61	Apr-July		33
Sevier nr Kingston	6.0	39	Apr-July		15.4
Sevier below Piute Dam (1)	13.0	45	Apr-July		29
<u>SAN PITCH RIVER</u>					
Ephraim Creek nr Ephraim	11.0	79	Apr-July	8.1	13.9b
Pleasant Crk nr Mt. Pleasant	6.0	77	Apr-July		7.8b
<u>BEAVER RIVER</u>					
Beaver nr Beaver	13.0	69	Apr-July	18.7	18.9
Minersville Reservoir Inflow (1)	2.0	42	Apr-June		4.7

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier(above div.)	5	July 5	July 19
Salina Creek at Salina	25	May 28	June 10
Sevier at Circleville(Circle Valley)	90	June 5	June 24
Sevier at Hatch (upper)	100	June 10	July 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
<u>Sevier River</u>			
Below Vermillion Dam	42	58	Apr-Sept
Circle Valley	55	66	Apr-Sept
Panguitch Valley	80	84	Apr-Sept
Sevier Valley	33	40	Apr-Sept

OTHER SPECIAL FORECASTS

Below Vermillion - Very little flow above 360 second feet is now expected this year - possibly 400 to 600 acre feet.

Inflow to Sevier Bridge Reservoir from October 1 to March 31 was 94,400 acre feet

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- (1) - Observed flow corrected for change in storage and diversions
- b - Average for all past record within 15-yr. period, but less than 15 years
- * - Partly estimated
- x - Adjacent drainage

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UPPER SEVIER RIVER (South of Richfield, Utah)</u>						
Big Flat x	10290	3/29	42	12.8	17.2	16.9
Box Creek	9800	3/27	19	6.6	11.5	11.7b
Bryce Canyon	8000	3/30	0	0.0	0.0	2.0
Castle Valley	9700	3/30	18	6.7	10.7	11.7b
Duck Creek R.S.	8700	3/28	8	1.8	8.6	11.8
Farview	8700	3/30	0	0.0		
Fish Lake	8700	3/27	0	0.0	5.4	5.7
Harris Flat R.S.	7700	3/28	0	0.0	5.3	5.7
Kimberly Mine	9300	3/29	18	7.2	17.0	14.3
Long Valley Jct. x	7500	3/28	0	0.0	0.0	1.2
Midway Valley	9800	3/28	42	16.4	17.2	20.2b
Panguitch Lake	8200	3/30	0	0.0	2.3	2.2
Squaw Springs	9300	3/27	0	0.0	5.4	6.3b
Widtsoe-Escalante Smt.	9500	3/31	0	0.0	1.4	5.4
Widtsoe-Escalante #2	9500	3/31	17	5.4	6.9	8.1
Widtsoe-Escalante #3	9500	3/31	26	9.6	8.9	7.4b
<u>LOWER SEVIER RIVER (Including San Pitch)</u>						
Beaver Dams	8000	3/28	1	0.3	11.3	11.2
Farnsworth Lake	9900	3/30	43	16.6	23.4	17.4
G.B.R.C. Headquarters	8700	3/31	24	9.5	15.4	16.1
G.B.R.C. Meadows	10000	3/31	49	20.5	28.0	24.3
Gooseberry R.S.	8400	3/30	9	3.6	14.1	10.8
Gooseberry Reservoir x	8700	3/29	30	13.2	19.4	18.1
Huntington-Horseshoe	9800	3/29	38	16.5	21.0	23.4
Mammoth R.S. - Ctnwd. Crk.	8800	3/29	30	13.2	20.4	19.0
Middle Fork	9600	3/27	51	19.0	25.2	22.5b
Mt. Baldy R.S.	9500	3/28	44	18.0	24.1	21.8
Oak Creek	7760	3/29	10	3.7	10.2	- -
Pickle Keg Springs	9600	3/24	19	7.8	16.4	- -
Pine Creek	8700	3/29	0	0.0	18.3	15.0
Ree's Flat	7300	3/23	15	5.5	15.8	12.0b
Shingle Mill	6200	3/24	4	1.5	10.6	8.3b
Thistle Flat	8500	3/27	24	9.8	17.1	15.5b
<u>BEAVER RIVER</u>						
Big Flat	10290	3/29	42	12.8	17.2	16.9
Merchant Valley	8200	3/30	0	0.0	8.8	8.1
Otter Lake	9300	3/29	28	9.3	14.2	13.3

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

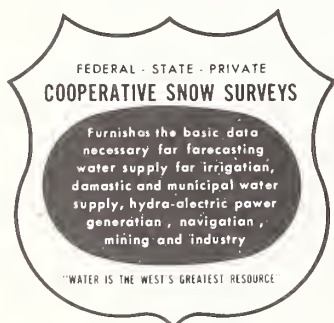
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Sevier River</u>	Gunnison	18.2	18.1	18.1	- -
	Otter Creek	52.5	39.4	50.4	27.9
	Piute	71.8	66.4	58.7	38.8
	Sevier Bridge	236.0	185.7	232.9	95.8
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	17.0	18.2	11.9

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>SEVIER RIVER</u>							
Beaver Dams	8000	3/28	0.75	3.02b	12.60	14.32b	88
Big Flat x	10290	3/29	0.40	3.66b	11.53	15.52*	74
Box Creek	9800	3/27	0.29	3.07b	12.05	13.20b	91
Castle Valley	9700	3/30	0.49	3.19b	11.93	14.49b	82
Duck Creek R.S.	8560	3/28	0.22	3.20b	16.43	16.65*	99
Farnsworth Lake	9900	3/30	0.78	4.63b	17.12	18.15b	94
Fish Lake	8700	3/27	0.31	1.73b	8.51	8.11b	105
G.B.R.C. Headquarters	8700	3/31	0.50	3.80	15.27	17.57	87
G.B.R.C. Meadows	10000	3/31	1.20	4.62	20.00	21.03	95
G.B.R.C. Oaks	7655	3/31	0.30	2.53	10.30	12.05	85
Gooseberry R.S.	7800	3/30	0.37	3.03	12.13	12.59*	96
Gooseberry Reservoir x	8700	3/29	1.40	3.44b	16.10	17.27b	93
Kimberly Mine	8900	3/29	0.44	4.04	12.53	17.12*	73
Mammoth R.S. #2 x	8600	3/29	2.04	3.83b	16.34	18.23b	90
Mt. Baldy	9500	3/28	0.75	3.42b	15.45	15.85b	97
Oak Creek	7760	3/24	- -	- -	13.38	- -	- -
Panguitch Lake	8200	3/30	0.22	1.29b	9.49	6.80b	140
Pickle Keg Springs	9600	No data		- -	- -	- -	- -
Pine Creek	8700	3/29	0.94	5.65b	20.06	21.74b	92
Shingle Mill	6200	3/24	0.60	3.17b	13.75	13.75b	100
Webster Flat x	9200	3/28	0.03	3.13	17.48	17.95b	97
Widtsoe-Escalante #3	9500	3/31	0.51	2.49	12.20	12.44b	98
Widtsoe R.S.	7600	3/31	0.17	0.77	5.31	4.55	117
Beaver Canyon P.H.	7275	Trace		- -	7.30	- -	- -
Big Flat	10290	3/29	0.40	3.66b	11.53	15.52*	74
Merchant's Valley	8650	Delayed Data		- -	- -	- -	- -

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

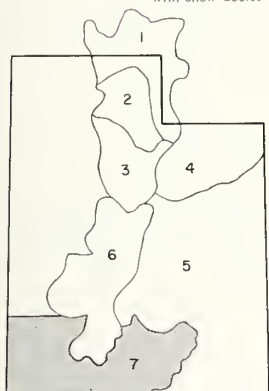
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LEGEND

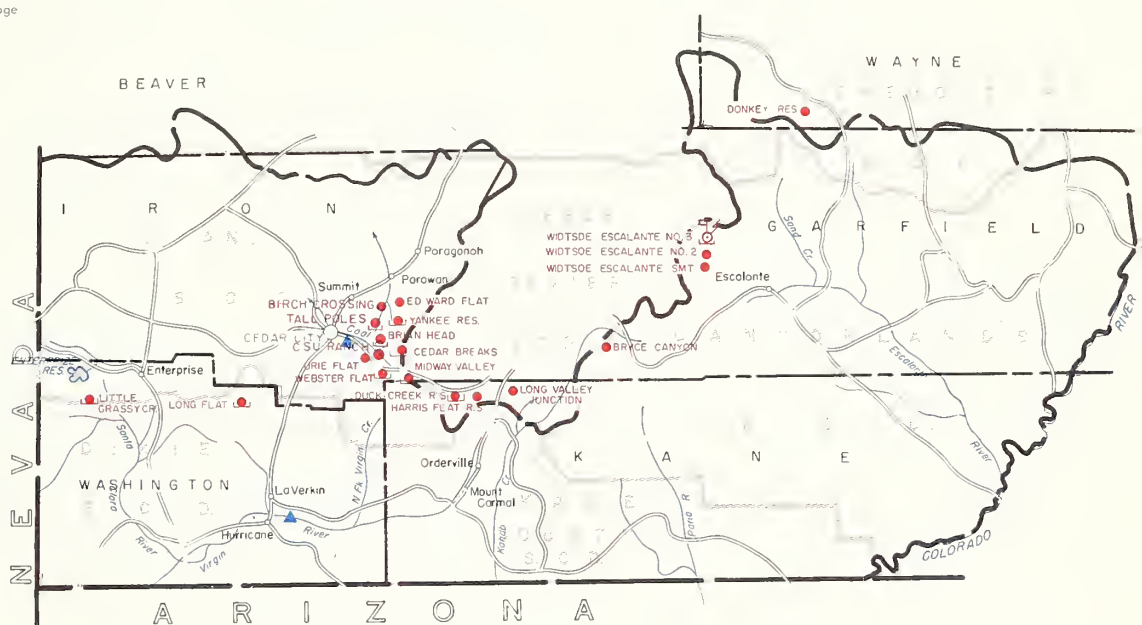
- Watershed Boundary
- - - S. C. D. Boundary
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- + Aerial Marker
- ⊕ Soil Moisture Station
- ⊖ SCS Precipitation Gage
- ⊖ NWS Precipitation Gage
- ⊖ Temperature Gage
- Snow Sensor
- ⊖ Radio Telemetry
- ⊖ Radio Base Station
- ⊖ Radio Relay Station
- ⊖ Snow Sensor with Snow Course



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SCALE IN MILES



WATERSHED LOCATION



APRIL 1, 1972

The 1972 Water Supply Outlook for southwestern Utah has dropped to "much below average" as a result of a very warm, dry April.

Snow Cover dropped from a little above average on March 1 to about half of the usual April 1 water contents. Virgin River snow cover is now only 46% of average for the 1953-67 period for April 1. Coal Creek snow cover is now 56% of average and Parawan Creek 51% of average. Snow cover on the head of the Escalante River was 72% of the April 1 average. Generally, all snow has melted below the 9,000 foot elevation unless it is in a well shaded area. Precipitation during March varied from 0 to 20% of average and warm temperatures melted the snow pack much faster than usual. Snow courses that usually gain 1 to 3 inches of water content during March lost as much as 10 inches.

Reservoir Storage in Lake Powell is now 13,424,000 acre feet, a gain of 312,000 acre feet during March. Last year it held 12,434,000 acre feet on April 1.

Streamflow Forecasts have been reduced as a result of the extremely dry weather and now range from 45% of average on the Santa Clara to 90% for the inflow to Lake Powell. Virgin River is expected to flow only 20,000 acre feet (53%) during the April-June period at Virgin. Last year it produced 30,000 acre feet for the same period. Coal Creek is forecast to flow 7,500 acre feet (59%) during the April-July period.

Flows of streams in this area are expected to recede much earlier than usual causing Water Supply shortages by mid-summer.

APRIL 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	20	53	Apr-June	30	38
Santa Clara nr Pine Valley	1.5	45	Apr-June		3.3b
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	7.5	54	Apr-July		13.8
<u>UPPER COLORADO</u>					
Lake Powell Inflow	5900	90	Apr-July	8378	6527

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Colorado</u>	Lake Powell	25002.0	13,424.0	12434.0	5156.0
b - Average for all past record within 15 year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

EAST GARFIELD, KANE, WASHINGTON & IRON

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	3/31	0	0.0	1.4	5.4
Widtsoe-Escalante #2	9500	3/31	17	5.4	6.9	8.1
Widtsoe-Escalante #3	9500	3/31	26	9.6	8.9	9.4b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	3/30	0	0.0	0.0	2.0
Rainbow Point x	9100	3/30	0	0.0	- -	- -
<u>VIRGIN RIVER & COAL CREEK</u>						
CSU Ranch	8200	3/28	0	0.0	4.6	- -
Duck Creek R.S.	8700	3/28	8	1.8	8.6	11.8
Harris Flat x	7700	3/28	0	0.0	5.3	5.7
Long Valley Jct.	7500	3/28	0	0.0	0.0	1.2
Midway Valley X	9800	3/28	42	16.4	17.2	20.2b
Urie Flat	8450	3/28	0	0.0	6.2	5.1b
Webster Flat	9200	3/28	15	5.8	11.8	14.1
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	3/28	0	0.0	6.2	- -
Brian Head	10000	3/28	44	16.3	19.2	- -
Ed Ward Flat	8300	3/28	0	0.0	6.1	6.5
Tall Poles	8800	3/28	26	10.3	14.8	- -
Yankee Reservoir	8700	3/28	7	1.9	8.7	9.1
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	3/24	0	0.0	0.0	0.4b
Long Flat	8000	3/21	0	0.0	0.0	5.1b

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	3/31	0.51	2.49b	12.20	12.44b	98
<u>VIRGIN RIVER</u>							
Duck Creek R.S.	8560	3/28	0.22	3.20b	16.43	16.65*	99
Webster Flat	9200	3/28	0.03	3.13*	17.48	17.95*	97
<u>COAL CREEK</u>							
Webster Flat x	9200	3/28	0.03	3.13*	17.48	17.95*	97
<u>PAROWAN CREEK</u>							
Tall Poles	8800	3/28	0.05	- -	14.04	- -	- -
Yankee Reservoir	8700	3/28	0.29	2.84b	10.66	11.33b	94
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	3/24	0.00	2.19b	12.15	11.68*	104
Long Flat	8000	3/21	0.00	2.65b	10.14	11.56b	88

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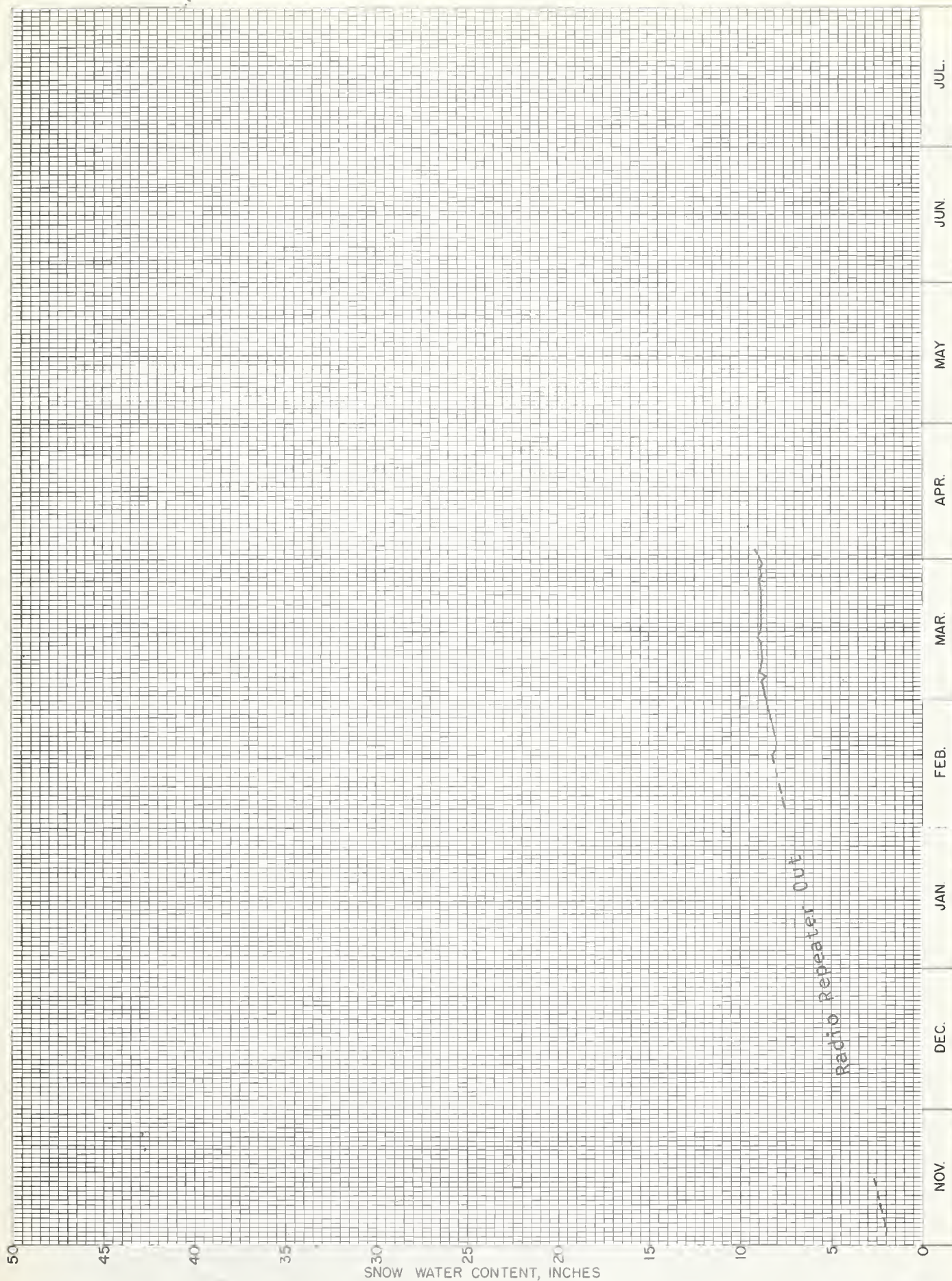
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SNOW PILLOW DATA
WATER YEAR 1972

No. 12L7

Elev. 10,000

Drainage: Beaver River



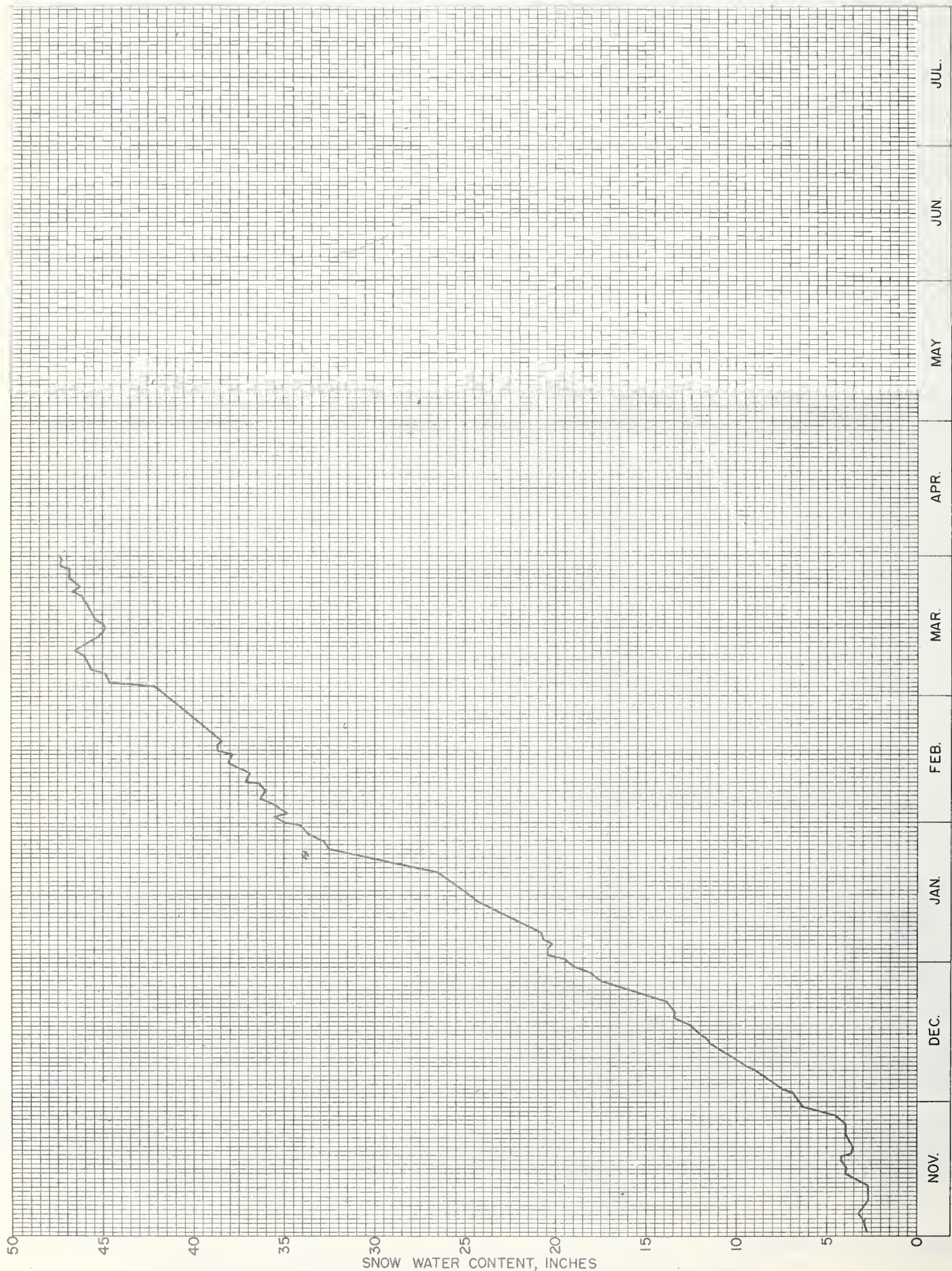
HORSE RIDGE

SNOW PILLOW DATA WATER YEAR _____

No. 11H21

Elev. 8260

Drainage: Lost Creek



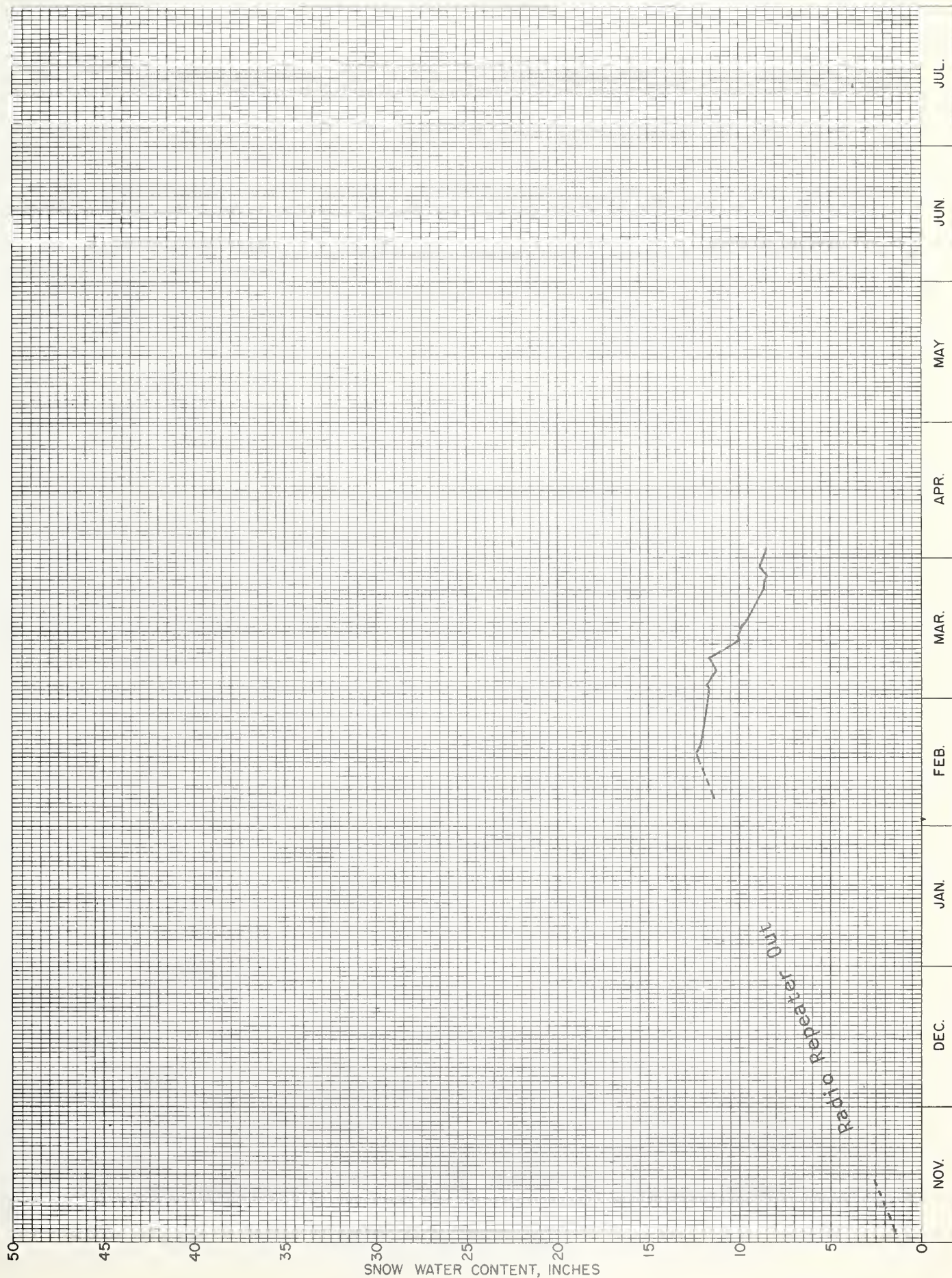
PICKLE KEG SPRINGS

SNOW PILLOW DATA
WATER YEAR 1972

No. 11K39

Elev. 9600

Drainage: Salina Creek



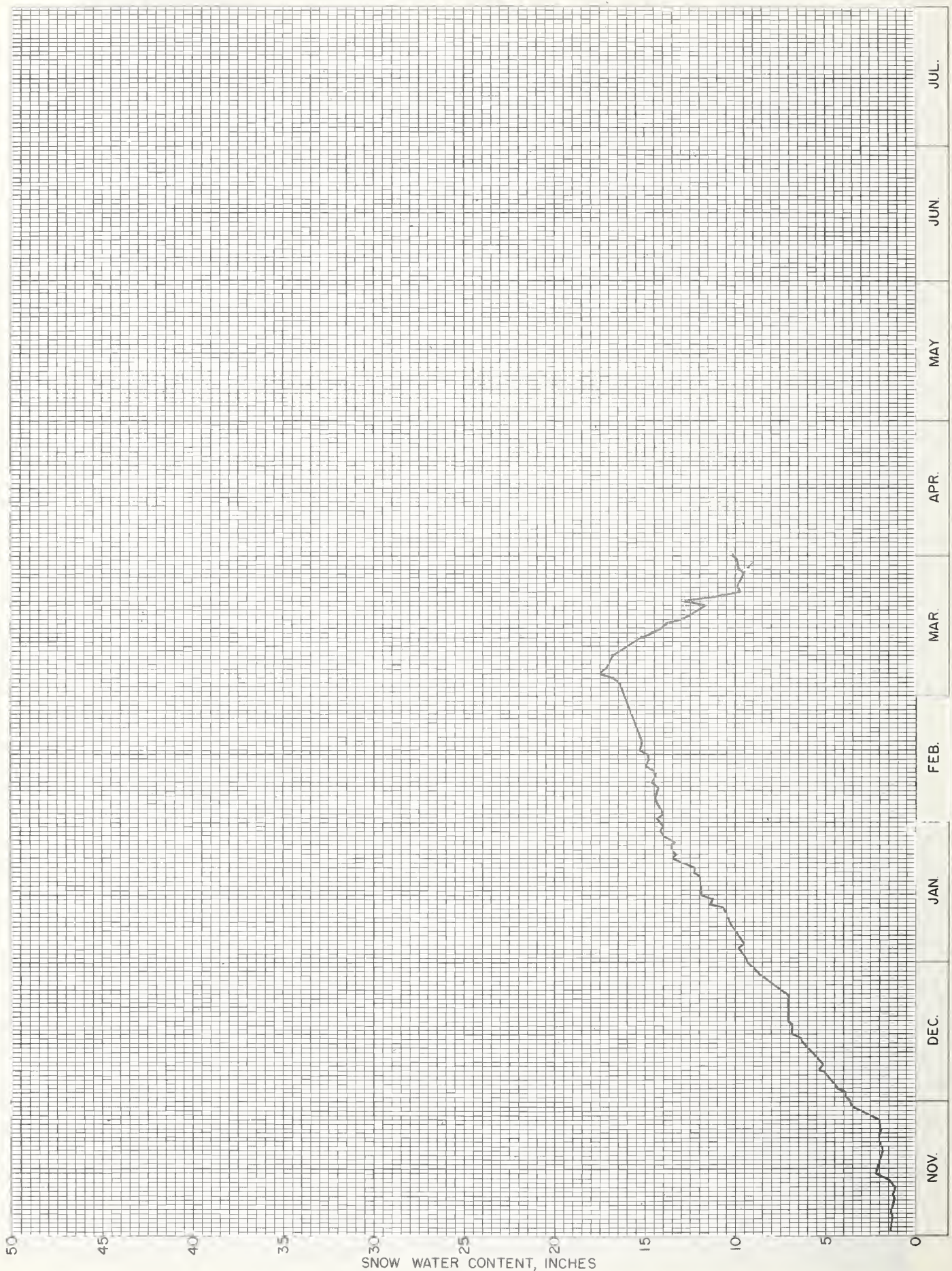
PARLEY'S CANYON SUMMIT

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J15

Elev. 7500

Drainage: East Canyon Crk. - Weber River



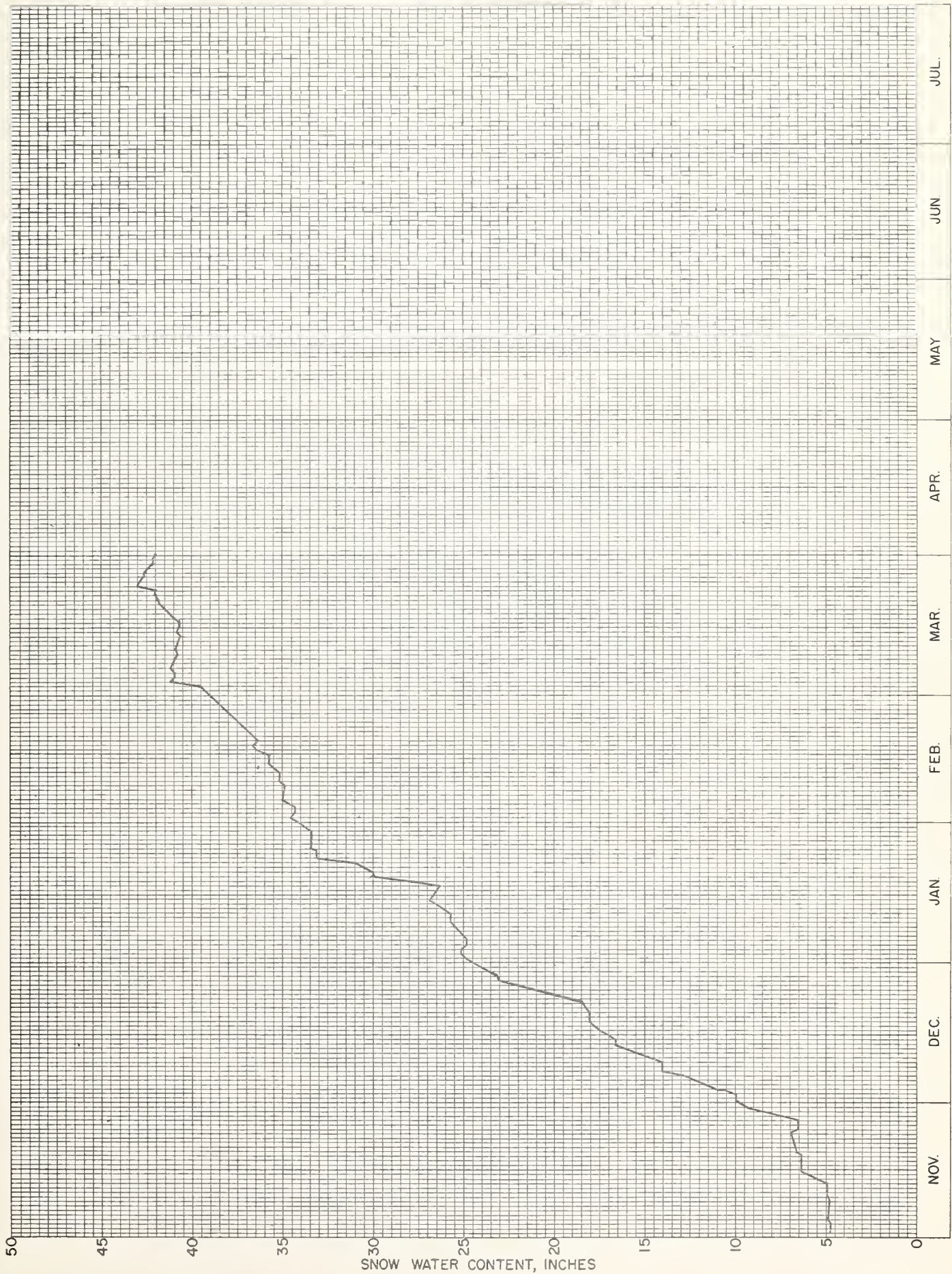
FARMINGTON CANYON (upper)

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J11

Elev. 8000

Drainage: Farmington Creek



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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